

Bioenergy in Use

Altalto – Developing Jet Fuels from Bioenergy

Altalto, a collaboration between the sustainable fuels business Velocys, British Airways and Shell, is developing plans for the UK's first commercial scale waste-to-renewable jet fuels plant, to be built near Immingham, North East Lincolnshire. It will take hundreds of thousands of tonnes per year of residual waste (after removal of recyclable material) to be converted into clean-burning, sustainable aviation fuels. The jet fuel produced is expected to deliver 70% greenhouse gas reduction and up to 90% reduction in particulate matter emissions compared with conventional jet fuel, contributing to both carbon emissions reductions and local air quality improvements around airports.



Velocys is a sustainable fuels technology company and a British innovation success story. Originally a spin-out from Oxford University, in 2008 the Company acquired a US company based on complementary technology developed at the Pacific Northwest National Laboratory. Over 15 years Velocys has developed proprietary Fischer-Tropsch technology that enables the production of drop-in transport fuels from a variety of waste materials. Having demonstrated its technology at commercial scale, the Company is currently developing a commercial sustainable fuel project in Natchez, Mississippi, USA and leading on the development of the Altalto project in the UK.

The project has received grant funding from the Department for Transport under the Future Fuels for Flight and Freight Competition. The plant could attract several hundred million pounds of private sector investment. Subject to planning and funding decisions, it could begin construction in 2021 and be operational by 2024, creating hundreds of construction jobs and around 130 long-term skilled jobs.

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